BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE PROJECT: ADDITIONAL AND ALTERATION OF GOVT SCHOOL AT ANANTHAPURA VILLAGE IN ATTUR WARD NO-03

BUILDING

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the exavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. Specification No. KBS 2.1(b) / 2.3.5 Pg No 6,Item No 2.4								
	Footings								
	C1	Cum	12	2.9	2.8	1.5	146.16		
	SSM Footing								
	Along Long Direction	Cum	3	5.3	0.9	0.9	12.88		
	Along Short Direction	Cum	2	5.1	0.9	0.9	8.26		
		Cum	4	3.6	0.9	0.9	11.66		
	Compound Wall								
	SSM Footing	Cum	1	13.9	0.6	0.75	6.26		
		Cum	1	5.75	0.6	0.75	2.59		
		Cum	1	19.45	0.6	0.75	8.75		
	Basic rate							449.00	
	Area weightage 8%							35.92	
	Total						196.56	484.92	95315.88
2	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. Specification No. KBS Pg No 7, Item No 2.15								
	Footings								
	C1	Cum	12	2.9	2.8	0.15	14.62		
	Basic rate							2429.00	
	Area weightage 8%							194.32	
	Total						14.62	2623.32	38342.45
3	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 Pg No.13 Item No 4.3								
	Footings								
	C1	Cum	12	2.9	2.8	0.15	14.62		
	SSM Below								
	Along Long Direction	Cum	3	17.1	0.9	0.15	6.93		
	Along Short Direction	Cum	2	7.3	0.9	0.15	1.97		
		Cum	4	5.8	0.9	0.15	3.13		
	Compound Wall	Cum	1	13.9	0.75	0.15	1.56		
		Cum	1	5.75	0.75	0.15	0.65		
		Cum	1	19.45	0.75	0.15	2.19		
	Basic rate							5102.00	
	Area weightage 8%							408.16	
	Total						31.04	5510.16	171053.27
4	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No. 4.5 of PWD SR 2018-19)								
	Above SSM								
	Along Long Direction	Cum	3	17.1	0.6	0.15	4.62		
	Along Short Direction	Cum	2	7.3	0.6	0.15	1.31		
		Cum	4	5.8	0.6	0.15	2.09		
	Compound Wall	Cum	1	13.9	0.45	0.15	0.94		
		Cum	1	5.75	0.45	0.15	0.39		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Plinth Area	Cum	1	19.45	0.45	0.15	1.31		
	Steps	Cum	1	18.00	7.30	0.15	19.71		
	First Step								
		Cum	1	3.00	0.90	0.15	0.41		
		Cum	1	3.00	0.60	0.15	0.27		
		Cum	1	3.00	0.30	0.15	0.14		
	Basic rate							5328.00	
	Area weightage 8%							426.24	
	Total						**31.18**	**5754.24**	**179407.13**
5	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerddressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour, curing completeas per specifications.KBS 5.1.13 Pg No 25 item No 5.6								
	SSM Footing								
	Along Long Direction	Cum	3	17.10	0.60	0.6	18.47		
	Along Short Direction	Cum	2	7.30	0.60	0.6	5.26		
		Cum	4	5.80	0.60	0.6	8.35		
	Compound wall								
	SSM below ground level	Cum	1	13.90	0.60	0.6	5.00		
		Cum	1	5.75	0.60	0.6	2.07		
		Cum	1	19.45	0.60	0.6	7.00		
	Basic rate							4596.00	
	Area weightage 8%							367.68	
	Total						**46.15**	**4963.68**	**229083.76**
6	KSRB 5.4-4 : Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:4 , edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, scaffolding, curing complete as per specifications. KBS 5.1.13 Pg No 25 item No 5.13								
	Compound Wall								
	SSM Above Ground Level	Cum	1	13.90	0.45	0.6	3.75		
		Cum	1	5.75	0.45	0.6	1.55		
		Cum	1	19.45	0.45	0.6	5.25		
	Basic rate							6005.00	
	Area weightage 8%							480.40	
	Total						**10.56**	**6485.40**	**68466.37**
7	KSRB 15.1.3 – do – Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.								
	SSM Above Ground Level	Sqm	1	13.9		0.6	8.34		
			1	5.75		0.6	3.45		
			1	19.45		0.6	11.67		
	Basic rate							142.00	
	Area weightage 8%							11.36	
	Total						**23.46**	**153.36**	**3597.83**
8	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification. No. KBS 2.9, Pg No.7, Item No.2.10								
	Filling Available of Excavated Earth								
	Earth Work Excavation	Cum	From Item no 1				196.56		
	PCC for Footing	Cum	From Item no 3				-31.04		
	Filling in foundation with granite / trap broken metal	Cum	From Item no 2				-14.62		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	SSM Footing	Cum	From Item no 5				-46.15		
	Footing Concrete Quantity	Cum	From Item no 18				-53.59		
	Basic rate							201.00	
	Area weightage 8%							16.08	
	Total						**51.16**	**217.08**	**11105.11**
9	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge. Pg No 136,Item No17.4								
	Excavated Earth	Cum		From Item no 1			196.56		
	Filling Available of Excavated Earth	Cum		From Item no 8			-51.16		
	Loading and unloading item no.17.1 KSRRB M 100-1	Cum						57.00	
	Basic rate for haulage of materials as per item No. 17.4 KSRRB : M 100 - 4.1	t.km	For surface roads exluding loading & unloading					2.00	
	Average Weight of earth	For2Kms =2x1.28x2						5.12	
	Basic rate							62.12	
	Area weightage 8%							4.97	
	Total						145.40	67.09	9755.05
10	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2, Pg No 16, Item No 4.28								
	Footings								
	C1	Sqm	12	11.4		0.55	75.24		
	Basic rate							258.00	
	Area weightage 8%							20.64	
	Total						75.24	278.64	20964.87
11	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness , including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2, Pg No 16, Item No 4.31								
	Plinth Beam								
	Along Long Direction	Sqm	4	19.8		0.6	47.52		
	Along Short Direction	Sqm	12	6		0.6	43.20		
	Basic rate							358.00	
	Area weightage 8%							28.64	
	Total						90.72	386.64	35075.98
12	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc. and Removal of form Work for columns, pillars, piers, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2, Pg No 16, Item No 4.32								
	Ground Floor								
	Column Below Plinth								
	C1	Sqm	12	1.5		0.65	11.70		
	Column upto beam bottom								
	C1	Sqm	12	1.5		3	54.00		
	Basic rate							456.00	
	Area weightage 8%							36.48	
	Total						65.70	492.48	32355.94
13	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs.Specification No. KBS 4.6.2 page no.16 item no 4.29.2								
	Ground Floor								
	Slab	Sqm	1	19.8	7.9		156.42		
	Basic rate							400.00	
	Area weightage 8%							32.00	
	Total						156.42	432	67573.44

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
14	KSRB 4-6.9 : Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floors including cost of all materials,labour complete as per specifications. Specifications No. KBS 4.6.2, Pg No 17,Item No 4.36								
	Ground Floor								
	Slab	Sqm	1	55.4		0.15	8.31		
	Basic rate							755.00	
	Area weightage 8%							60.40	
	Total						**8.31**	**815.4**	**6775.97**
15	KSRB 4-6.11 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2, Pg No 17, Item No 4.38								
	Steps								
	First Step	Sqm	1	4.80		0.15	0.72		
	Second Step	Sqm	1	4.2		0.15	0.63		
	Third Step	Sqm	1	3.6		0.15	0.54		
	Basic rate							520.00	
	Area weightage 8%							41.60	
	Total						**1.89**	**561.6**	**1061.424**
16	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specificaitons.Specification No. KBS 4.6.2, Pg No 17, Item No 4.34								
	Ground Floor								
	Beams								
	Along Long Direction	Sqm	6	19.8		0.45	53.46		
	Along Short Direction	Sqm	12	7		0.45	37.80		
	Lintel								
	Through lintel	Sqm	4	19.8		0.2	15.84		
	Bottom (Windows)	Sqm	9	1.5	0.2		2.70		
	Bottom (Doors)	Sqm	3	1.2	0.2		0.72		
	Basic rate							292.00	
	Area weightage 8%							23.36	
	Total						**110.52**	**315.36**	**34853.59**
17	KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc., including edges including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2 Pg No 17,Item No 4.37								
	Ground Floor								
	Chejja(W1)	Sqm	6	1.5	0.6		5.4		
	Chejja Sides(W1)	Sqm	6	2.7		0.1	1.62		
	Basic rate							323.00	
	Area weightage 8%							25.84	
	Total						**7.02**	**348.84**	**2448.86**
18	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6, Pg No. 14, Item No. 4.10								
	Footings								
	C1	Cum	12	2.9	2.8	0.55	53.59		
	Plinth Beam								
	Along Long Direction	Cum	2	19.8	0.3	0.6	7.13		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Along Short Direction	Cum	6	6	0.3	0.6	6.48		
	Column Below Plinth								
	C1	Cum	12	0.3	0.45	0.65	1.05		
	Basic rate							5812.00	
	Area weightage 8%							464.96	
	Total						68.25	6276.96	428421.35
19	KSRB 4.2.8 : Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thickness) including attached plasters ,columns, pillars,posts,struts.butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing, complete as per specifications. No. KBS 4.1, 4.6, Pg No. 14, Item No. 4.12								
	Ground Floor								
	C1	Cum	12	0.3	0.45	3	4.86		
	Lintel								
	Through lintel	Cum	2	19	0.2	0.2	1.52		
	Basic rate							6045.00	
	Area weightage 8%							483.60	
	Total						6.38	6528.60	41652.47
20	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for R.C.C works laid in 15 cms thick layers and well compacted including vibrating, curing, etc for all super Structure works with all lead and Lift etc., complete (exclusive of cost of steel and fabrication charges) Ready mixed cement for concrete with M-25. Pg No.19 Item No.4.49.2								
	Ground Floor								
	Slab	Cum	1	19.8	7.9	0.15	23.46		
	Beams								
	Along Long Direction	Cum	3	19.8	0.3	0.45	8.02		
	Along Short Direction	Cum	6	7	0.3	0.45	5.67		
	Basic rate							5497.00	
	Area weightage 8%							439.76	
	Total						37.15	5936.76	220562.51
21	KSRB 4.2.11 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.5865cum and fine aggregtes @ 0.391cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms. average thickness, upto First Floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 Pg No.15 Item no.4.20								
	Ground Floor								
	Chajja(W1)	Sqm	6	1.5	0.6		5.4		
	Basic rate							496.00	
	Area weightage 8%							39.68	
	Total						5.40	535.68	2892.67
22	KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Pg No.18 Item No.4.46.2								
	Ground Floor								
	Footing	Cum	Concrete Quantity				53.59		
		kg	Steel assumed 115 Kg/Cum of Concrete				6163.1		
		tonne					6.16		
	Colomn	Cum	Concrete Quantity				5.91		
		kg	Steel assumed 150 Kg/Cum of Concrete				886.95		
		tonne					0.89		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Plinth beam	Cum	Concrete Quantity				13.61		
		kg	Steel assumed 120Kg/Cum of Concrete				1632.96		
		tonne					1.63		
	Chajja	Cum	Concrete Quantity				0.54		
		kg	Steel assumed 100 Kg/Cum of Concrete				54.00		
		tonne					0.05		
	Lintel	Cum	Concrete Quantity				1.52		
		kg	Steel assumed 100 Kg/Cum of Concrete				152.00		
		tonnne					0.15		
	Beam	Cum	Concrete Quantity				13.69		
		kg	Steel assumed 150 Kg/Cum of Concrete				2053.4		
		tonne					2.05		
	Roof Slab	Cum	Concrete Quantity				23.46		
		kg	Steel assumed 150 Kg/Cum of Concrete				3519.5		
		tonne					3.52		
	Basic rate							78007.00	
	Area weightage 8%							6240.56	
	Total						14.46	84247.6	1218370.52
23	KSRB 5-14.1: Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., complete as per specifications. KBS No.5.4, Pg No. 27 Item No. 5.27.1								
	Ground Floor								
	Walls								
	Along Long Direction	Sqm	2	17.1		3	102.60		
	Along Short Direction	Sqm	4	6		3	72.00		
	Parapet Wall								
	Along Long Direction	Sqm	2	19.8		1	39.60		
	Along Short Direction	Sqm	2	7.5		1	15.00		
	Compund Wall	Sqm	1	13.9		2.1	29.19		
		Sqm	1	6.3		2.1	13.23		
		Sqm	1	14.6		2.1	30.66		
	Deduction								
	W1	Sqm	-9	1.5		1.5	-20.25		
	D1	Sqm	-3	1.2		2.1	-7.56		
	Basic rate							912.00	
	Area weightage 8%							72.96	
	Total						274.47	984.96	270341.97
24	KSRB15-3.8 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Pg No. 116,Item No.15.16								
	External Plastering								
	Ground Floor								
	Walls								
	Along Long Direction	Sqm	2	19.8		3.6	142.56		
	Along Short Direction	Sqm	2	6.4		3.6	46.08		
	Chajja								
	W1	Sqm	6	1.5	0.6		5.4		
	W1 Sides	Sqm	12	0.6		0.1	0.72		
	W1 Front	Sqm	6	1.5		0.1	0.9		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Parapet Wall								
	Along Long Direction	Sqm	4	19.8		1	79.2		
	Along Short Direction	Sqm	4	7.5		1	30		
	Compound Wall	Sqm	2	13.9		2.1	58.38		
		Sqm	2	6.3		2.1	26.46		
		Sqm	2	14.6		2.1	61.32		
	Deductions								
	W1	Sqm	-9	1.5		1.5	-20.25		
	D1	Sqm	-3	1.2		2.1	-7.56		
	Basic rate							261.00	
	Area weightage 8%							20.88	
	Total						**423.21**	**281.88**	**119294.43**
25	KSRB15-5.1 : Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing complete as per specifications , Pg.No-117, Item No-15.30.								
	Ground Floor								
	Along Long Direction	Sqm	2	19		0.15	5.7		
	Along Short Direction	Sqm	6	5.7		0.15	5.13		
	Basic rate							205	
	Area weightage 8%							16.40	
	Total						**10.83**	**221.40**	**2397.762**
26	KSRB 15.3.2 : Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications .Pg No. 115 Item No.15.10								
	Internal Plastering								
	Ground Floor								
	ClassRoom 1								
	Along Long Direction	Sqm	2	7		3.45	48.3		
	Along Short Direction	Sqm	2	6		3.45	41.4		
	ClassRoom 2								
	Along Long Direction	Sqm	2	7		3.45	48.3		
	Along Short Direction	Sqm	2	6		3.45	41.4		
	Office								
	Along Long Direction	Sqm	2	6		3.45	41.4		
	Along Short Direction	Sqm	2	5		3.45	34.5		
	Deduction								
	W1	Sqm	-9	1.5		1.5	-20.25		
	D1	Sqm	-3	1.2		2.1	-7.56		
	Basic rate							204.00	
	Area weightage 8%							16.32	
	Total						**227.49**	**220.32**	**50120.60**
27	KSRB15-3-14 : Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to ceiling including rounding off corners wherever required smooth rendering, : including Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Pg No 116, Item No15.22								
	Ground Floor								
	Ceiling								
	ClassRoom 1	Sqm	1	7	6		42.00		
	ClassRoom 2	Sqm	1	7	6		42.00		
	Office	Sqm	1	6	5		30.00		
	Corrridor	Sqm	1	19.8	1.5		29.70		
	Beams								
	Classroom	Sqm	4	6		0.45	10.80		
	Corrridor	Sqm	12	1.5		0.45	8.10		
		Sqm	2	18		0.45	16.20		
	Basic rate							225.00	
	Area weightage 8%							18.00	
	Total						178.80	243.00	43448.40

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
28	providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty . Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of alll mateerial cost of labour and scaffolding etc. ,complete as per specification. Pg No.128 Item No.15.106								
	for Internal plastered portions	Sqm	1	same as Internal plastering			227.49		
	ceiling	Sqm	1	same as plastering for beam + ceiling			178.80		
	Basic rate							78.00	
	Area weightage 8%							6.24	
	Total						406.29	84.24	34225.87
29	KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer. PgNo. 119, I.No. 15.51.2								
	Internal painting	Sqm	Same as Internal plastering				227.49		
	Basic rate							90.00	
	Area weightage 8%							7.2	
	Total						227.49	97.20	22112.03
30	KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications page no117 item no 15.49.1 . KSRB 15-14.1 : Extra over Item 15-14.1 for applying oil bound washable distemper on ceiling and / or sloping roof as per specifications.Pg No 119,Item No15.49.2								
	Ceiling	Sqm	Same as plastering for beam and ceiling				178.80		
	Basic rate							110.00	
	Extra over Item 15-14.1							8.00	
	sub total							118.00	
	Area weightage 8%							9.44	
	Total						178.80	127.44	22786.27
31	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. (P. No. 117, I.No. 15.53.2 of SR 2018-19).								
	External painting								
	Ground Floor	Sqm	Same as External plastering +chajja plastering +Compound Wall plastering				423.21		
	Basic rate							102.00	
	Area weightage 8%							8.16	
	Total						423.21	110.16	46620.81
32	KSRB 14.9-1: Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping , under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curing, complete as per specifications Specification No. KBS 14.4, Pg No 104,Item No 14.13								
	Ground Floor								
	ClassRoom 1	Sqm	1	7	6		42		
	ClassRoom 2	Sqm	1	7	6		42		
	Office	Sqm	1	6	5		30		
	Corridor	Sqm	1	19.8	1.5		29.7		
	Basic rate							631.00	
	Area weightage 8%							50.48	
	Total						143.70	681.48	97928.68

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
33	Providing and fixing for flooring 20mm thick gang saw water cut sadarhalli gray granite in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, groves in joints including cost of curing - minimum width of 900mm.								
	Ground Floor								
	Flooring								
	ClassRoom 1	Sqm	1	7	6		42.00		
	ClassRoom 2	Sqm	1	7	6		42.00		
	Office	Sqm	1	6	5		30.00		
	Corridor	Sqm	1	19.8	1.5		29.70		
	Skirting								
	Along Long Direction	Sqm	2	19		0.15	5.70		
	Along Short Direction	Sqm	6	5.7		0.15	5.13		
	Basic Rate							1979.00	
	Area weightage 8%							158.32	
	Total						**154.53**	**2137.32**	**330280.06**
34	Providing half nosing for 20mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification page no 111 item no 14.56								
	Ground Floor								
	Nosing								
	Along Long Direction	m	2	19			38.00		
	Along Short Direction	m	6	5.7			34.20		
	Basic Rate							180.00	
	Area weightage 8%							14.4	
	Total						**72.20**	**194.40**	**14035.68**
35	Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @0.50kg/sqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification. page no 69 item no 10.5.1								
	Terrace	Sqm	1	19.8	7.9		156.42		
	Basic Rate							526.00	
	Area weightage 8%							42.08	
	Total						**156.42**	**568.08**	**88859.07**
36	KSRB 9-27.1 : Fixing of door frames in an existing opening including embedding frame in floor and walls after cutting masonary for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and downsize granite metal painting two coats of coal tar to sides of frame,making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour, complete as per specifications. Pg No 60,Item No 9.80								
	Ground Floor								
	D1	Nos	3				3.00		
	Basic rate							1366.00	
	Area weightage 8%							109.28	
	Total						**3.00**	**1475.28**	**4425.84**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
37	KSRB 9.4-2: Providing Honne wood frames of doors, windows, clerestory windows,ventilators and other frames , wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps),but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33 Pg No 53,Item No 9.11								
	Ground Floor								
	D1	Cum	3	6.6	0.15	0.125	0.37		
	Basic rate							87604.00	
	Area weightage 8%							7008.32	
	Total						0.37	94612.3	35124.82
38	KSRB 9.5-2 : Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34, Pg No. 53, Item No. 9.15								
	Ground Floor								
	D1	Sqm	3	1.2		2.1	7.56		
	Basic rate							4722.00	
	Area weightage 8%							377.76	
	Total						7.56	5099.76	38554.19
39	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost ofmaterials, labour, complete as per specifications. Pg no:121.Item no:15.60.1								
	Ground Floor								
	D1	Sqm	3	1.2		2.1	7.56		
	Basic rate							97.00	
	Area weightage 8%							7.76	
	Total						7.56	104.76	791.99
40	KSRB 7.11 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar - using aluminium section powdered coated to a minimum of 60- 70 microns with exterior durable pure polyester grade powder of approved quality.Pg No.35 Item No.7.11.2								
	Ground floor								
	W1	Sqm	9	1.50		1.50	20.25		
	Basic Rate							4435.00	
	Area weightage 8%							354.8	
	Total						20.25	4789.80	96993.45
41	KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications.Specification No. KBS 7.12 Pg No.34 Item No.7.9								
	Ground Floor								
	W1	Kg	9			47.25	425.25		
				21kg per sqm 1.5*1.5*21=47.25					
	Basic Rate							95.00	
	Area weightage 8%							7.6	
	Total						425.25	102.60	43630.65

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
42	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. Pg no:123.Item no:15.74								
	For window and ventilators	sqm	1	window qty+ventilator qty			20.25		
	Painting for Grill Works	Sqm		window qty			20.25		
	Basic rate							95.00	
	Area weightage 8%							7.60	
	Total						40.50	102.60	4155.30
43	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305								
	Filling	Cum	1	18.00	7.30	0.6	78.84		
	Basic Rate							325.00	
	Area weightage 8%							26.00	
	Total						78.84	351.00	27672.84
44	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members asshown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specifiocation. P. No. 45 / I. No. 7.37								
	Gate	Sqm	1	5.40	2.1		11.34		
	Basic Rate							3012.00	
	Area weightage 8%							240.96	
	Total						11.34	3252.96	36888.57
45	KSRRB M200-29. Dismantling of barbed wire fencing / wire mesh fencing including posts, foundation concrete, back filling of pit by manual means including disposal of dismantled material with all lifts and stacking serviceable material and unserviceable material separately complete as per specifications. MORTH Specification No. 202								
	Grill	m	1	13.90			13.90		
		m	1	6.50			6.50		
		m	1	14.80			14.80		
	Basic Rate							66.00	
	Area weightage 8%							5.28	
	Total						35.20	71.28	2509.06

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE PROJECT: ADDITIONAL AND ALTERATION OF GOVT SCHOOL AT ANANTHAPURA VILLAGE IN ATTUR WARD NO-03

Electrical Works

Sl.no	SR book page no.	SR book item no.	Description of Works	Unit	Qty	SR Rate Rs.Ps	Amount, Rs.Ps
			INTERNAL WIRING SYSTEM				
46			Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet.				
a	Pg 5	Item 2.1.1	Short point upto 3m	Point	7	200.00	1400
b	Pg 5	Item 2.1.2	Medium point above 3m - 6m	Point	8	275.00	2200
47	Pg 2	Item 1.2	Concealed Conduit System - Supplying heavy gauge PVC conduit pipe .....mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of unction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary				
a	Pg 2	Item 1.2.2	25mm dia, 2mm thick	Rm	30	53.00	1590
48	pg 2	item 1.3	Groove cutting : Supplying heavy gauge conduit PVC 25/2mm of s thick heavy with suitable size bend , metal junction boxes, adhesive pastes etc, by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduit where ever necessary.				
a	Pg 2	Item 1.3.1	19/20mm dia, 2mm thick	Rm	25	51.00	1275
b	Pg 2	Item 1.3.2	25mm dia, 2mm thick	Rm	15	54.00	810
49	pg 9	item 3.4	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall				
a	Pg 9	item 3.4.1	1 - 3 Way	Each	5	95.00	475
b	Pg 9	item 3.4.2	4 - 5 Way	Each	6	105.00	630
50	pg 9	item 3.1	Supplying 6A flush type socket and 6 amp flush type SP switch either surface/flush mountinh in existing gang box or in 4mm thik plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wire as required as per IS 1293 and IS 3654 .				
a	Pg 9	Item 3.1.2	6AMP 3/5 and Switch	No	3	132.00	396
51	pg 9	item 3.2	Supplying and mounting 2 Nos, of 2 Way 6amps flush type switches either surface/flush mounted on existing gang box or in 4mm thick plastic sheet and mounted on a flusg mounted wooden box and wiring as per IS 1293	Each	3	150.00	450

Sl.no	SR book page no.	SR book item no.	Description of Works	Unit	Qty	SR Rate Rs.Ps	Amount, Rs.Ps
52	pg 15	item 3.3	Supply and fixing of bakelite D.P /socket/switch with/ without neon indicator over existing wood board or flush mounting in plastic plates/nitches as per IS 1293 and IS 3854				
a		3.3.4	16Amps Combined switch and socket with indication	No	3	194.00	582
b		3.3.5	Electronic stepped regulator.	No	2	150.00	300
53			Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments				
a	Pg 6	Item 2.3.2	1.5sqmm	Rm	30	20.05	601.5
b	Pg 6	Item 2.3.3	2.5sqmm	Rm	30	32.00	960
54	Pg 3	Item 1.12	Supplying and fixing Metal Fan Box with Round Hook	Each	3	85.00	255
			LIGHT FIXTURES				
55	Pg 69	item 12.4.2	Suppiying and fixing of slim box Fitting ,made out of CRCA sheet metal body with locking type holder completely wired Excluding Ballast &Flouresent Tube. 1X4' Tube light Fitting	Nos	4	300.00	1200
56	Pg 46	Item 7.3	Supplying capacitor type ceiling fan complete with down rod blades shackle, canopies etc, for operation on 230 volts, 50 cycles. single phase AC supply conforming to ISS-374-1979 and with double ball bearing system				
a	Pg 46	item 7.3.1	48" sweep (1200mm)	Each	3	2090.00	6270
						Total Electrical Amount	19394.50
						Total Building Amount	4352334.78
						Sub Total	4371729.28
						GST Charges (12% of estimated cost)	524607.51
						Preparation of DPR and Architectural ,Structural Consultation fee(1% of estimated cost)	50000.00
						Project management Consultancy Charges(1% of estimated cost)	50000.00
						Miscellaneous and Rounding off	3663.21
						Total Amount	5000000.00
			RUPEES FIFTY LAKHS ONLY				

Administrative Sanction for Rs. 50.00 lakhs
Rupees fifty lakhs only
is accorded under head P-3853
special grant 2020-21

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P.
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on C.S.R of 2018-2019 and Data rates, PWD Electrical 2019-20,PRED 2019-20, SE. RDED approved Rate and Issused Rates.

Technical Sanction
Accorded For 50.00 lakhs
Head of A/C P-3853
CER NO :164 Dt: 22/2/2021

TA

CE (YNK)

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP